

Mineral Industry Surveys

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PRECIOUS METALS IN OCTOBER 2000

U.S. mines produced 27,600 kilograms (kg) of gold and 146,000 kg of silver in October 2000. Compared with September, production of silver was down 14% in Nevada.

Gold

Domestic.—A mineralized zone with an additional 18,700 kg (600,000 troy ounces) of gold was discovered at Royal Gold Inc.'s Pipeline Complex in Nevada. The exploration was carried out by the Cortez Joint Venture, owned 60% by Placer Dome Inc. and 40% by Kennecott Explorations (Australia) Ltd. Further drilling and metallurgical testing as well as economic and technical feasibility assessments would be required before the mineralization could be classified as proven or probable ore reserves (American Metal Market, 2000a).

Glamis Gold Ltd. suspended underground mining at its Dee Mine in late November and open pit mining was concluded at the end of 2000. The mine is located 40 kilometers north of Carlin, Nevada. For 2000, Glamis expects to produce 1,900 kg (60,000 ounces) of gold at \$304 per ounce of gold. Exploration will continue at the site as a joint effort with Barrick Gold Corp. (American Metal Market, 2000c).

International.—Second quarter gold demand fell 42% in Indonesia. The sharp drop in gold demand occurred mainly because of political uncertainty and unfavorable currency exchange rates. Of the other Southeast Asian countries, which include Indonesia, Malaysia, Singapore, Thailand, and Vietnam, only Singapore had a decline (8%) in gold demand (American Metal Market, 2000b).

Construction of the Pascua-Lama gold mine on the Chilean-Argentine border, scheduled to begin in December 2000, was postponed indefinitely. Changes need to be made to the tailings dam design to obtain environmental approval, which involves switching from wet to dry tailings. The Pascua-Lama Mine was

expected to begin producing gold by 2003 (Metal Bulletin, 2000).

The Swiss National Bank (SNB) sold 6,500 kg of gold reserves in the second 10 days of October and 12,300 kg of gold since late September. Between May and October, total sales were over 120,000 kg of gold reserves. These sales were part of the SNB's planned quota to sell 100,000 kg of gold reserves by April 2001, and another 200,000 kg during the remainder of 2001 (American Metal Market, 2000d).

The London Bullion Market Association's gold clearing statistics rose during September 2000. Gold transfers were up about 6.6% in comparison with those of the preceding month, rising to a daily average of 21.1 million ounces (656,000 kg). The daily average number of gold transfers also rose from 747 to 789 (Platt's Metals Week, 2000a).

Silver

On October 19, 2000, ASARCO Incorporated announced the sale of its Troy silver/copper mine and Rock Creek project to Sterling Mining Company of Montana. The properties are located in northwestern Montana. The Troy underground mine was placed on care-and-maintenance status in 1993 due to low metal prices. The mine has a production capacity of 131 metric tons (t) of silver and 20,000 t of copper in concentrate per year. The nearby Rock Creek project is currently in the permitting process. Rock Creek has ore reserves estimated at 136 million t, grading 51 grams per ton silver and 0.7% copper (ASARCO Incorporated, 2000).

Platinum-Group Metals

On October 17, 2000, the Stillwater Mining Company reported that production at the Stillwater Mine, Nye, MT, in the third quarter of 2000 was slightly more than 3,000 kg, an increase over the 2,900 kg produced in the third quarter of 1999. Ore mined in the third quarter of 2000 reached 171,000 t, 13% higher than the

152,000 t mined in 1999. During the first 9 months of 2000, 9,600 kg of PGM were produced, compared to 9,300 kg in the first 9 months of 1999. Cash costs of production for the third quarter of 2000 were \$310 per ounce compared to \$217 per ounce for the same period in 1999 (Stillwater Mining Co., 2000).

The dispute between Russian alluvial platinum producers and the State metal stocking agency, Gokhran, continued as the producers were refusing to sell at Gokhran's price and expected their stocks to increase. As reported in Precious Metals in September 2000 USGS Mineral Industry Surveys, Gokhran has a pricing policy that offers producers 20% to 30% less than the international market value for their metal. Gokhran has not announced any changes in its pricing policy. Koryakgeoldobycha (KGD), the leading alluvial producer, has been stockpiling its platinum rather than sell to Gokhran. KGD reportedly has considerable stockpiles unsold from 2000 and plans to hold up to 2,200 kg of platinum while it waits for a change in the State pricing policy. Meanwhile, KGD plans to increase its yearly platinum output to 4,400 kg in 2001 from 3,300 kg in 2000. The company is also asking the Government for permission to export its metal without having to go through Gokhran (Platt's Metals Week, 2000b).

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 ${\bf TABLE~1}$ MINE PRODUCTION OF RECOVERABLE GOLD AND SILVER IN THE UNITED STATES, BY STATE 1/

(Kilograms)

				Other	
Gold	Alaska	California	Nevada	States 2/	Total
1999: p/					
October	1,260	1,540	21,800	4,440	29,000
November	1,180	1,640	22,200	4,470	29,500
December	1,260	1,810	21,900	4,620	29,600
January-December	15,700	17,500	257,000	51,300	341,000
2000:					
January	1,270	1,480	21,300	4,170	28,200
February	1,190	1,390	19,100	4,000	25,600
March	1,270	1,680	20,700	4,370	28,000
April	1,310	1,210	19,800	4,230	26,500
May	1,350	1,460	17,700	4,470	25,000
June	1,310	1,600	19,700	4,720	27,300
July	1,460	1,470	19,500	4,480	26,900
August	1,460	1,340	22,000	4,980	29,800
September	1,510	1,460	21,600	3,780	28,300
October	1,510	1,360	19,000	5,680	27,600
January-October	13,600	14,400	200,000	44,900	273,000
				Other	
Silver	Arizona	Idaho	Nevada	States 3/	Total
1999: p/					
October	13,500	35,100	48,700	63,500	161,000
November	12,100	34,400	41,500	61,500	150,000
December	14,700	34,400	75,100	61,800	187,000
January-December	183,000	417,000	577,000	769,000	1,950,000
2000:					
January	W	34,400	56,900	75,200	167,000
February	W	33,800	61,200	69,900	165,000
March	W	34,400	85,600	75,000	195,000
April	W	35,200	68,400	71,600	175,000
May	W	35,500	73,200	73,000	182,000
June	W	35,200	58,900	73,500	168,000
July	W	34,800	57,300	71,300	163,000
August	W	34,800	53,100	73,200	161,000
September	W	34,500	53,700	69,500	158,000
October		34,500	45,900	66,000	146,000
January-October		347,000	614,000	718,000	1,680,000

p/ Preliminary. W Withheld to avoid disclosing company proprietary data, included with "Other States."

^{1/} Data are rounded to no more than three significant digits; may not add to totals shown.

^{2/} Includes Arizona, Colorado, Idaho, Montana, New Mexico, South Carolina, South Dakota, Utah, and Washington.

^{3/} Includes Alaska, California, Colorado, Missouri, Montana, New Mexico, New York, South Carolina, South Dakota, Tennessee, Utah, Washington, and State indicated by symbol W.

TABLE 2 SELECTED PRECIOUS METAL PRICES

(Dollars per troy ounce)

	Gold	Silver	Platinum	Palladium
Engelhard Industries:				
1999:				
Low/date	253.88 (July 20)	4.91 (January 4, April 14,		
		May 28, June 4)	344.00 (January 28)	293.00 (May 4)
High/date	326.70 (October 5)	5.75 (September 28)	457.00 (November 16)	456.00 (December 29)
Average	279.91	5.25	378.94	363.20
2000:				
September:				
Low/date	270.61/21	4.89/21	582.00/26	720.00/28
High/date	277.52/28	5.02/27	615.00/11 and 12	775.00/13
Average	274.65	4.95	595.75	738.85
October:				
Low/date	264.90/27	4.76/30	575.00/3 and 4	722.00/2
High/date	275.12/12	4.95/5 and 10	593.00/19 and 20	766.00/31
Average	271.11	4.88	584.36	748.46
November:				
Low/date	265.20/8	4.66/29	589.00/1 and 22	779.00/1
High/date	271.06/28	4.81/2	610/30	818.00/30
Average	267.15	4.72	599.30	792.55
Year to date:				
Low/date	264.90 (October 27)	4.66 (November 29)	416.00 (January 6)	437.00 (January 6)
High/date	313.88 (February 7)	5.53 (February 7)	615.00 (August 2,	865.00 (August 2)
			September 11 and 12))
Average	280.76	5.03	548.22	673.26
Handy and Harman:				
1999	278.81	5.25	XX	XX
2000:				
September	273.53	4.95	XX	XX
October	270.00	4.88	XX	XX
November	266.05	4.72	XX	XX
Average year to date	279.62	5.04	XX	XX
London Final: 1/				
1999	278.77	5.22	XX	XX
2000:				
September	273.68	4.89	XX	XX
October	270.00	4.83	XX	XX
November	266.01	4.68	XX	XX
Average year to date	279.72	4.99	XX	XX
VV N-41:1-1-				

XX Not applicable.

1/ Silver price reported as "London Spot/US Equiv."

Source: Platt's Metals Week.

$\label{eq:table 3} \text{U.S. IMPORTS AND EXPORTS OF GOLD 1/}$

(Kilograms of gold content, unless otherwise specified)

Davied and country	Ores and	Doré and	Refined bullion 3/	Ash and residues	Total 4/	Waste and scrap	Metal powder	Gold compounds
Period and country	concentrates 2/	precipitates	buillon 3/	residues	Total 4/	(gross weight)	(gross weight)	(gross weight)
Imports for consumption: 1999	117	24.700	106 000	122	221 000	20.500	5 500	9,400
	117	24,700	196,000	133	221,000	30,500	5,500	9,400
	0	1.500	14 200	2	15 000	790	707	114
July August	8 13	1,590 2,050	14,300 16,800	1	15,900 18,900	789 1,100	797 614	446
September:	13	2,030	10,800	1	10,900	1,100	014	440
Brazil			2,830		2,830			144
Canada	4	72	13,700		13,800	114	1,200	144
Chile			475		475		1,200	
Colombia		103	257		360			
Costa Rica		7	231		7	143		5
Dominican Republic			28		28	606	3	3
		49			49		110	
Honduras Mexico		493	41	(5/)	535	670	110	
Peru		729	41	(3/)	729	670		
Switzerland Other	4	 119	101 131		101 253	105	1 10	 29
				 (E)		185		
Total	8	1,570	17,600	(5/)	19,100	1,720	1,320	178
Year to date	48	25,500	134,000	15	160,000	14,200	4,380	7,480
Exports:	115	07.000	125,000		522.000	40.000	250	561,000
1999 2000:	117	87,300	435,000		523,000	40,000	270	561,000
	270	10,700	5.510		16,500	2 120	16	55 100
July	320	6,960	5,510		,	3,130	46 22	55,100
August	320	0,900	21,300		28,600	3,940		233,000
September: Australia								382 6
						384		362 0/
Belgium					 520			 847 6
Canada		501	30		532	2,910	3	
Colombia							3	2,480 6
Dominican Republic								369 6
Germany			62		62	53	2	
Hong Kong			500		500			
Israel			1		1			16,100 6
Korea, Republic of			517		517			
Mexico			1,610		1,610		2	3
Netherlands							1	18
Netherlands Antilles							1	
Peru			802		802			
Saudi Arabia			1,970		1,970			
Singapore		3	538		541		1	
Switzerland		5,600	30,400		36,000			
United Arab Emirates			1,000		1,000			
United Kingdom			4,740		4,740	4,390	427	1
Other		10	167		177	118		
Total		6,120	42,300		48,400	7,850	441	20,200
Year to date	691	80,200	308,000		389,000	44,500	1,050	1,150,000

⁻⁻ Zero

 $^{1/\,\}textsc{Data}$ are rounded to no more than three significant digits; may not add to totals shown.

^{2/} Includes gold content of base metal ores, concentrates, and matte imported for refining.

^{3/} Bullion also moves in both directions between U.S. markets and foreign stocks on deposit in the Federal Reserve Bank. Monetary gold excluded.

^{4/ &}quot;Waste and scrap," "Metal powder," or "Gold compounds" not included in "Total."

^{5/} Less than 1/2 unit.

^{6/} All or part of these data have been referred to the U.S. Census Bureau for verification.

 ${\bf TABLE~4} \\ {\bf U.S.~IMPORTS~AND~EXPORTS~OF~SILVER,~REFINED~AND~AS~NITRATE~1/}$

(Kilograms)

Period and country	Bullion (silver content)	Doré (silver content)	Total (silver content)	Other unwrought silver (gross weight)	Metal powder (gross weight)	Silver nitrate (gross weight)
Imports for consumption:	(4 11 11 11 1)	(* * * * * * * * * * * * * * * * * * *	(* * * * * * * * * * * * * * * * * * *	8 8	(g ****	8
1999	2,660,000	407,000	3,070,000	126,000	120,000	4,480
2000:		,	-,,	.,	.,	,
July	197,000		197,000	19,600	19,500	1,000
August	241,000		241,000	19,600	11,200	
September:	_				·	
Brazil						1,520
Canada	94,200 2/		94,200	14,100	9	
Colombia	·	1,110	1,110			
Fiji					386	
Germany					1,260	
Japan					14,200 2/	
Mexico	124,000		124,000	6,530	·	
Peru	17,100		17,100			
Other				14 2/	2/	
Total	235,000	1,110	236,000	20,700	15,800	1,520
Year to date	3,010,000	69,400	3,080,000	148,000	195,000	9,750
Exports:	_					
1999	481,000	64,400	545,000	75,100	324,000	62,500
2000:	_					
July	323	1,250	1,570	3,720	43,200	25,100
August	24,600	1,740	26,300	2,940	36,400	21,300
September:						
Australia						2,070
Austria					92	
Canada	551		551	305	2,180	8,570
China					2,780	
Dominican Republic				402		
France					289	
Germany			31	286	7,210	
Hong Kong	-				769	
Japan	18,700		18,700		14,000	
Korea, Republic of				244	2,220	
Kuwait						50
Lebanon					120	
Mexico	6,330		6,330	120		440
Netherlands					97	
Netherlands Antilles				95		
Romania	-			98		
Singapore					92 2/	
Switzerland		254	254			
Taiwan				3,180	5,710 2/	186
United Kingdom	38,800	408	39,200	´	2,120 2/	2 2
Other	37		37		38	44
Total	64,500	662	65,100	4,730	37,700	11,400
Year to date	239,000	33,200	272,000	45,900	307,000	166,000

⁻⁻ Zero.

^{1/} Data are rounded to no more than three significant digits; may not add to totals shown.

 $^{2\!/}$ All or part of these data have been referred to the U.S. Census Bureau for verification.

TABLE 5 U.S. IMPORTS AND EXPORTS OF SILVER, RAW, SEMIMANUFACTURED, AND WASTE AND SCRAP 1/

(Kilograms of silver content, unless otherwise specified)

	Silver ores and	Base metal ores and	Ash and		Semimanu- factured form 2/3/	Waste and scrap
Period and country	concentrates	concentrates	residues	Total	(gross weight)	(gross weight)
Imports for consumption:	-	2.770	404.000	445.000	107.000	4 640 000
1999	10,800	2,750	101,000	115,000	137,000	1,640,000
2000:	_					
July			2,470	2,470	15,300	100,000
August	337		3,470	3,800	7,180	17,600
September:	_					
Brazil					678	26
Canada			462	462	26,800	132,000
China						1,300
Dominican Republic						332
France					210	2,300
Germany					3,480 4/	22,700
India					112	
Japan					103 4/	1,410
Korea, Republic of					167	45
Malaysia	- 					8,720
Mexico	- 		551	551	91 4/	729
Philippines	- 					12,300
Singapore	- 					1,070
Turkey	- 				50 4/	, <u></u>
United Kingdom	- 				704	187
Other	- 				82 4/	
Total	- <u></u>		1,010	1,010	32,500	183,000
Year to date	1,420		32,700	34,100	102,000	891,000
Exports:	- 1,120		32,700	31,100	102,000	0,1,000
1999	70,800			70,800	122,000	1,310,000
2000:				70,000	122,000	1,510,000
July	30,000			30,000	9,630	86,300
August	5,410			5,410	9,230	188,000
September:				3,410	7,230	100,000
Belgium	- 				566	18,200
Canada					5,080	35,600
China	- 				160 4/	
						26,500
Denmark	- 				78 4/ 50	
Egypt	- 					
France					53 4/	
Germany					438 4/	5,070
Hong Kong					369	3,930
India					8 4/	375
Israel					129 4/	
Italy					674 4/	17,900
Japan					82 4/	
Mexico	2,290			2,290	684 4/	12
South Africa						1,590
Sweden						2,000
Taiwan					890	2
United Kingdom					76 4/	220
Other					195 4/	27
Total	2,290			2,290	9,530	111,000
Year to date	64,300			64,300	118,000	1,210,000

^{1/} Data are rounded to no more than three significant digits; may not add to totals shown.

^{2/} Containing 99.5% or more by weight of silver. Imports only.

^{3/} Semimanufactured (including silver plated with gold or platinum) forms of silver.
4/ All or part of these data have been referred to the U.S. Census Bureau for verification.

 ${\bf TABLE~6} \\ {\bf U.S.~IMPORTS~FOR~CONSUMPTION~OF~PLATINUM-GROUP~METALS~1/}$

(Kilograms of metal content, unless otherwise specified)

	Platinum		Other		Platinum							
	grain and	Platinum	unwrought	Platinum,	waste and	Platinum	Unwrought	Palladium,		Unwrought	Unwrought	
Period and country	nuggets	sponge	platinum	other	scrap	coins	palladium	other	Iridium 2/	osmium	ruthenium	Rhodium 3/
1999	6,100	74,300	7,820	16,500	19,700	171	165,000	24,100	2,250	23	11,400	10,300
2000:												
July	551	6,710	690	636	291	(4/)	5,970	2,280	131	79	741	776
August	253	5,750	163	674	431	(4/)	8,290	1,590	138		8,780	1,160
September:												
Australia						(4/)						
Belgium		346					458	57 5/				8
Brazil					54							
Canada	3	7	27	134	26	(4/)	332		10		1	
Colombia	3		20		(4/)							
Dominican Republic					41							
Estonia			6				25					
France					32							25
Germany	64	307	15	183	13		502 5/	464	7 5/		75	63
Hong Kong					41							
Israel		(4/)	9									
Italy		92	2				22	422	1			
Japan				380	1		695	139				
Korea, Republic of	19 5/				1		24					11
Mexico				1 5/	13							
Netherlands				2				(4/)				
Peru					1							
Philippines					2							
Russia		310					10,800					163
South Africa	31	4,150	93		2		1,750	379	190		568 5	566
Spain				10								
Switzerland	92		2	127			1,460	27	4			
United Kingdom	78	306	44	60			2,780 5/	172	42 5/		6	77
Total	290	5,520	218	896	225	(4/)	18,800	1,660	254		650	913
Year to date	2,330	52,700	2,740	5,390	11,300	19	107,000	25,700	1,840	102	18,500	12,800

⁻⁻ Zero.

^{1/} Data are rounded to no more than three significant digits; may not add to totals shown.

^{2/} Unwrought and other forms of iridium.

^{3/} Unwrought and other forms of rhodium.

^{4/} Less than 1/2 unit.

^{5/} All or part of these data have been referred to the U.S. Census Bureau for verification.

TABLE 7 U.S. EXPORTS OF PLATINUM-GROUP METALS 1/

(Kilograms of metal content, unless otherwise specified)

Period and country	Palladium 2/	Platinum 2/	Platinum waste and scrap	Iridium, osmium and ruthenium 2/3/	Rhodium 2/
1999	43,800	19,400	7,660	851	114
2000:		,	.,		
July	4,600	1,410	303	296	143
August	3,940	2,380	434	91	59
September:		_,			
Australia		14			
Belgium		33	9	1	
Brazil		55			
Canada		152	34	(4/)	(4/)
Chile	30 5/	433			`
China		5	(4/)	(4/) 5/	
Colombia		1			
Cyprus					
Denmark		1			
Finland	2 5/	2			
France	106	16			
Germany	329 5/	97	251		1
Greece	1				
Guatemala	1				
Hong Kong		5			(4/)
Iceland		2			`
India		3			(4/)
Ireland	₁	8 5/			`
Israel			(4/)	(4/)	
Italy	7	2 5/	ĺ		
Japan	— 467	27	72		45
Korea, Republic of	456 5/	3			
Kuwait	1				
Malaysia		1			
Mexico	15 5/	9	(4/)		(4/)
Netherlands	— 81	8		(4/)	`
New Zealand					
Philippines		2			
Romania		1			
Saudi Arabia		3			
Singapore					
Spain	4				
Sweden	1 5/	(4/)	3		
Switzerland		5 5/			
Taiwan	522	1			8
Thailand	2 5/	2 5/			
Turkey					(4/)
United Kingdom		307	203	5	
Venezuela	(4/)				
Total	1,300	1,200	574	7	55
Year to date	39,100	21,300	5,230	1,010	638

⁻⁻ Zero.

^{1/} Data are rounded to no more than three significant digits; may not add to totals shown.

^{2/} Unwrought and other forms.

^{3/} Gross weight.

^{4/} Less than 1/2 unit.

^{5/} All or part of these data have been referred to the U.S. Census Bureau for verification.